Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 551

WILLET TOWNSHIP

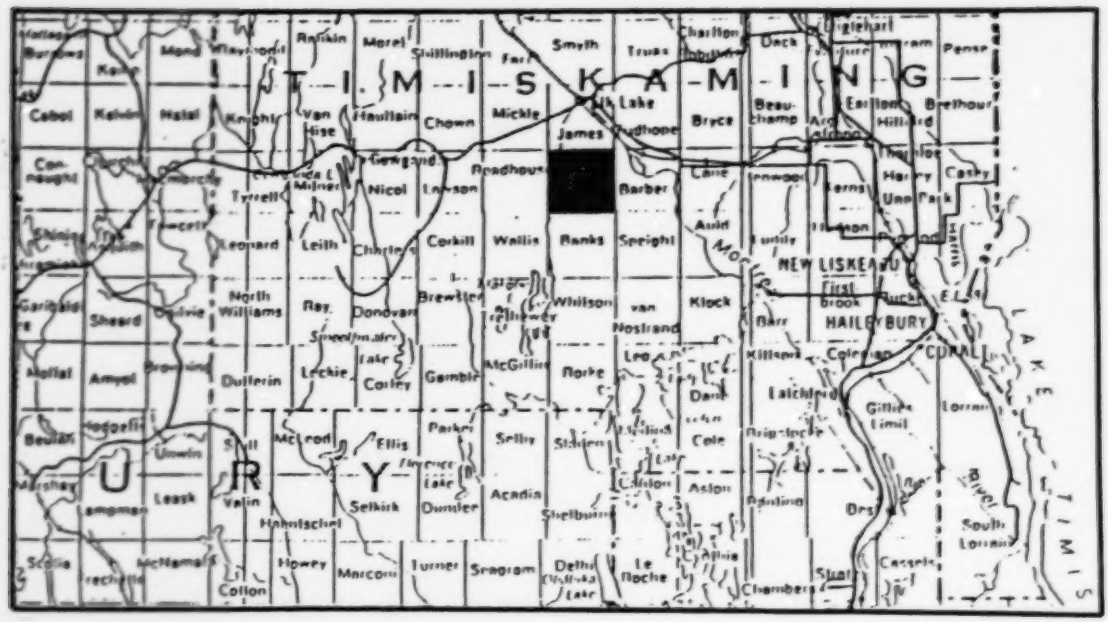
LARDER LAKE MINING DIVISION

NTS No. 41P/9

Compiled by the staff of

the Resident Geologist's Office

COBALT


T I M I S K A M I N G
U R Y
Willet
Gauthier
Nicol
Leonard
Leith
Corkill
Wallis
Ranks
Speight
Barber
Bradhour
James
Mickle
Chown
Haultain
Van Hise
Knight
Tyrrell
Lawson
Corbett
Brewster
Whitson
Van Nostrand
Klock
Donovan
Ray
North Williams
Dulferin
Leckie
Cosby
Gamble
McGillivray
Norbe
Lee
Dack
Cole
Parker
Selby
Sinclair
Ellis
McLeod
Selkirk
Dunlop
Acadia
Shelburne
Aston
Coleson
Latchford
Gillies Limit
Beaucham
Bryce
Lake
Hudson
Boston
Harris
Hilliard
Brethour
Penasp
Casey
Harry
Uno Park
Irvine
Barnet
Lorrain
Connaught
Shirley
Sheard
Ospika
Argyle
Ampol
Beatty
Hoggarth
Umpire
Leask
Yelin
Hannaschel
Howry
Marcon
Turner
Sprague
Delhi
Le Roche
Scotia
McNamara
Collon
Chambers
Stuart
Cassels
South Lorrain
Englehart
Thornloe
Harris
Uno
Park
NEW LISKEARD
First Brook
Burton
HAILEYBURY
COBALT
Killaire
Coleman
Gillies
Limit
Lorrain
Dack
Dack
Aston
Dack
Dack
Dack

90-04574/

Mining Claim Map Number M-258

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA), 1985-1990.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Willet Township, Geological Data Inventory Folio 551; compiled by the staff of the Resident Geologist's Office, Cobalt.

Original Compilation by: Anderson, Patricia, January 1990.

Date	Page(s) Revised	Revised by
*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

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B. Exploration Data Map (s) ..... Map B-1

GEOCHRONOLOGY DATA – AGE DATING

Site No on Map	Method	Material	Reference	Result
A	Rb/Sr	Diabase	MRC 10, p. 355	2150 m.y.
	Rb/Sr	Ag/Co ore	MRS 10, p. 355	N.G.T. 2150 m.y.

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	OGS/ODM General Index	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	N.A.	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (OGS)	Yes	D.P.A.
14	Author - Subject Articles File	Yes	D.P.A.
15	ODM/OGS Miscellaneous Papers	No	D.P.A.
16	ODM Geological Circulars	No	D.P.A.
17	OGS Study Series	Yes	D.P.A.
18	ODM Preliminary Reports	No	D.P.A.
19	ODM Bulletins	Yes	D.P.A.
20	ODM/OGS Open File Reports	Yes	D.P.A.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
22	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
23	OGS Mineral Potential Maps	Yes	D.P.A.
24	Drill Core Library Catalogue	No	D.P.A.
25	Theses on File, Cobalt	No	D.P.A.
26	Aerial Photographs on File, Cobalt	Yes	D.P.A.
*			

MINERAL COMMODITIES REFERENCE LIST

	anh ..... Anhydrite		gl ..... Gravel		ra ..... Radioactive minerals	ADDITIONS	
	ank ..... Ankerite		gyp ..... Gypsum		RE ..... Rare Earths		
	ap ..... Apatite		hem ..... Hematite		sd ..... Sand		
	arg ..... Argentite		Fe ..... Iron		sgl ..... Sand and gravel		
	As ..... Arsenic		IF ..... Iron Formation		ss ..... Sandstone		
	asp ..... Arsenopyrite		jas ..... Jasper		scap ..... Scapolite		
	asb ..... Asbestos		ky ..... Kyanite		shee ..... Scheelite		
	ba ..... Barite		Pb ..... Lead		serp ..... Serpentine		
	be ..... Beryl		lim ..... Limonite		sh ..... Shale		
	Bi ..... Bismuth		Li ..... Lithium		sid ..... Siderite		
	bn ..... Bornite		mgst ..... Magnesite		si ..... Silica		
	Cd ..... Cadmium		mag ..... Magnetite	▲	Ag ..... Silver		
	calc ..... Calcite		mc ..... Malachite		sl ..... Slate		
	carb ..... Carbonate		Mn ..... Manganese		sm ..... Smaltite		
	cc ..... Chalcocite		mb ..... Marble		sod ..... Sodalite		
▲	cp ..... Chalcopyrite		mar ..... Marcasite		spec ..... Specularite		
	ch ..... Chert		ma ..... Marl		sp ..... Sphalerite		
	clay ..... Clay		mi ..... Mica		spd ..... Spodumene		
▲	Co ..... Cobalt		mo ..... Molybdenite		s ..... Sulphides		
	cob ..... Cobaltite		Mo ..... Molybdenum		talc ..... Talc		
▲	Cu ..... Copper		mon ..... Monazite		Te ..... Tellurium		
	cor ..... Corundum		ne .... Nephelite (nepheline)		th ..... Thorite		
	dol ..... Dolomite		Ni ..... Nickel		Th ..... Thorium		
	ep ..... Epidote		Nb ..... Niobium		ti ..... Titanite		
	fel ..... Feldspar		Pd ..... Palladium		Ti ..... Titanium		
	fl ..... Fluorite (flurospar)		pent ..... Pentlandite		tour ..... Tourmaline		
	fu ..... Fuchsite		Pt ..... Platinum		W ..... Tungsten		
	gn ..... Galena	▲	py ..... Pyrite		uran ..... Uraninite		
	gt ..... Garnet		pyl ..... Pyrochlore		U ..... Uranium	✲	
	goe ..... Goethite		po ..... Pyrrhotite		verm ..... Vermiculite		
	Au ..... Gold		q ..... Quartz		Zn ..... Zinc		
	gf ..... Graphite		qcv .. Quartz carbonate vein		zr ..... Zircon		

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps

MINERAL OCCURRENCES

Ref Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
A	Lucky Godfrey Silver Mine (Pritchard-Bastien)	Ag,Co-major cp,py-minor	ODM-Ag-2174001 MRC 10, p. 355, 341 MDIR T0270 NMI 41P/9 Ag2	Production totalled 9,835 oz. Ag and 592 lb. Co; grading 578 oz./T Ag; 1908 and 1910 ODM 1965, Map P.313 ODM 1967, OFR 5006 ODM 1967, Map 2152 OGS 1968, GR 62, p. 54-55 GSC 1913, Mem. 33
B	Paragon (Willet, Ganda)	Ag,Co	MRC 10, p. 358 NMI 41P/9 Ag35	ODM 1967, OFR 5006, p. 138 ODM 1965, Map P.313 GSC 1913, Mem. 33
C	Tichbourne Prospect	Ag	NMI 41P/9 Ag6 MRC 10, p. 358	GSC 1913, Mem. 33 ODM 1965, Map P.313 ODM 1965, OFR 5006, p. 141
D	Barnet (Accra, Tichbourne, Durrell)	Co,Cu	NMI 41P/9 CO_2 MRC 10, p. 358	ODM 1965, AR Vol. 73, p. 117 ODM 1965, Map P.313 ODM 1967, OFR 5006, p. 136 Durrell claimed shipped 1800 lb. ore in 1917
E	Mosher (Floyd)	Ag,Co	NMI 41P/9 Ag32 MRC 10, p. 358	ODM 1967, OFR 5006, p. 137 ODM 1965, Map P.313
F	Willet	Ag		Willet Tp. AF Willet Silver Mines Ltd. Ganda Silver Mines Ltd. Excelsior Mines Ltd.

MINERAL OCCURRENCES

Ref Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks

WILLET TOWNSHIP

TYPE OF WORK

(see Files Index Map)

EXPLORATION FILES

Numbers below represent the year in which the work was done; e.g., 68 for 1968

Ref No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	OTHER DATA IN THIS FILE, OR FOOTNOTES
1	Durrell, Lloyd (Morrison)			?		?		?										
2	Excelsior Mines Ltd.							63										
3	Ganda Silver Mines Ltd.			63	63	63		65 63										
4	Gomar Mines Ltd.				64	64												
5	Hyland	?																
6	Lucky Godfrey Mine, Zenmac Metal Mining Co. Ltd., Willet and James Tps.							08 09 10 11 12 13 24 52 58 60 61 62										

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS NOTES. CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
6	Lucky Godfrey Cobalt Mines Co. Ltd.			08-11			09-11											
	E. Pritchard-A. Bastien, 1958						?											
	Dominion Explorers Ltd., 1960				60	60	60											
	Zenmac Metal Mining Co. Ltd.				62	62												
7	Mosher, Alex C.				50		50											
8	The Paragon Silver Mining Co. Ltd.							12 18										
	Willet Silver Mines Ltd.			09														
	The Paragon Silver Mining Co. Ltd.						12-15											
	The Paragon Silver Mining Co. Ltd.-Hitchcock Mines Ltd., Dec. 23, 1923																	

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done. e.g. 68 for 1968															OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS NOTES CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
8	Winchell, I.F., 1963 Optioned to Ganda Silver Mines Ltd. (Shaft 2)						63											
9	Tichborne, G. (Durrell, Barnet)																	
9a	Barnet Claim, MR858			?		?	17	17 26 ?										
9b	Lloyd, Durrell & Morrison			?		?												
10	Willet Tp., Robert Thompson reports							53 21 61 20 20 12										
10a	Accra Explorations Ltd., Barnet Shaft				63													

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968															OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
10b	Wilkinson			21				21 53										
11	Accra Explorations Ltd., Barnet Silver Mine, Barber and Willet Tps. AFRO #63-1340	64			64 63	64	63	63 64 62				64						
12	Watson, K. and Carriere				50	50		50 50										
13	Willet Silver Mines Ltd., purchased claims from A.D. McBride, Dec. 4, 1909			09				65 10										

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Ganda Silver Mines Ltd.	1	1963	N40E	-45	0	49	cp, Ag ?	Ag
		2	1963	S45W	-45	0	28		
		3	1963	N40E	-45	0	18	s	Ag
2	Ganda Silver Mines Ltd.	4	1963	S40W	-60	0	37	Ag, py, cp	Ag
		5	1963	N40E	-60	10	15		
		6	1963	S40W	-60	6.5	18		
3	Ganda Silver Mines Ltd.	7	1963	East	-60	7	47	Co	Ag
4	Gomar Mines Ltd.	1	1964	220	-45	4	303		Ag
5	Gomar Mines Ltd.	2	1964	230	-45	7	353		
6	Gomar Mines Ltd.	3	1964	230	-45	6	353		Ag
7	Gomar Mines Ltd.	4	1964	230	-45	7	353		Ag
8	E. Pritchard-A. Bastien, Dominion Explorers	1	1960	North	-35	0	130		
		2	1960	20 W of S	-60	0	115		
9	Zenmac Metal Mining Co. Ltd.	2	1962	175	-45	14	251	s	Ag
		3	1962	143	-45	25	249		Ag
		4	1962	143	-45	32	207		Ag

●—— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
9	Zenmac Metal Mining Co. Ltd.	5	1962	-	-90	18	125		
		6	1962	-	-90	5	143	cp,s,py	Ag
		7	1962	-	-90	5	115		Ag
10	Mosher, Alex C.	1	1950	S22E	-50	0	105		
		2	1950	S22E	-65	0	70		
11	Accra Explorations Ltd., Barnet Shaft		1963	Six underground holes totalling 929'					
12	Accra Explorations Ltd.	64-1	1964	S45E	-45		148		Ag
13	Accra Explorations Ltd.	64-2	1964	270	-45		199		Ag
14	Watson, K. and Carriere	1	1950	S22E	-50		105		
		2	1950	S22E	-65		70		

● —— indicates core stored at Drill Core Library

WILLET TOWNSHIP

Number on File Index Map(s)	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direction	Flight Line Spacing
	— by — for — year	Type of Survey			

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA (see Exploration Data Map)		By	Reference
	Type of Survey	Analysis For		

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs: 1" = 1/4 mile, black and white, 1946 and 1949

(b) Photomosaics:

(c) Satellite Imagery:

LANDSAT COLOUR PHOTO - NTS 31M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50 000	1976	Elk Lake, Ontario, NTS 41P/9	Surveys and Mapping Branch, EMR
1:20 000	1982	OBM 20 17 5400 52700 20 17 5500 52700 20 17 5400 52600 20 17 5500 52600	MNR

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT
			ACCRA EXPLORATIONS LTD.:
Northern Miner	Apr. 23, 1964		Accra Explorations
Northern Miner	Aug. 1, 1963		Accra Calling for Tenders for UG Drill
Northern Miner	Aug. 20, 1964		Accra Moves Drill For Timmins Test
Northern Miner	Aug. 27, 1964		Accra Expl Active on Several Properties
Northern Miner	Aug. 29, 1963		Accra Explorations
Northern Miner	Feb. 6, 1964		Accra Still Active in Elk Lake Area
Northern Miner	Jan. 9, 1964		Accra Awaits Results of Drilling Program
Northern Miner	July 23, 1964		Accra Now Drilling
Northern Miner	Mar. 19, 1964		Accra to Continue Elk Lake Program
Northern Miner	Mar. 26, 1964		Accra Explorations Gets New Claims
Northern Miner	Mar. 5, 1964		Accra Drops Option
Northern Miner	Mar. 7, 1963		Accra Explorations
Northern Miner	May 30, 1963		Accra Explorations to Sample Workings
Northern Miner	Oct. 3, 1963		Accra Explorations
			GANDA SILVER MINES LTD.:
Northern Miner	Aug. 8, 1963		Silver Team That's Making Money

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT
			GANDA SILVER MINES LTD.:
Northern Miner	Aug. 15, 1963		Ganda Silver Mines Unwaters Old Shaft
Northern Miner	Aug. 1, 1963		Ganda Going Underground
Northern Miner	Aug. 20, 1963		Ganda Silver Mines Tests Newly Acquired B.C. Group
			GOMAR MINES LTD.:
Northern Miner	Nov. 5, 1964		Gomar Mines Drills Elk Lake Property

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT

ADDENDA

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

ACCRA EXPLORATIONS LTD.
ALEXANDER LAKE
BARNET SILVER MINE
BASTIEN, A.
CARRIERE
COOKE LAKE
CRANE CREEK
CUCUMBER CREEK
DACY CREEK
DOMINION EXPLORERS LTD.
DURRELL
ELK LAKE SILVER AREA
ETWILL CREEK
ETWILL LAKE
EXCELSIOR MINES LTD.
FLOYD
GANDA SILVER MINES LTD.
GODFREY RICHARD
GOMAR MINES LTD.
HYLAND
JAMTAMA CREEK
JAMTAMA LAKE
LAMBLE CREEK
LAMBLE LAKE
LLOYD
LUCKY GODFREY COBALT MINES CO. LTD.
LUCKY GODFREY SILVER MINE
MCBRIDE, A.D.
MAKOBE RIVER
MORRISON

Index Volume	Listing	Report Volume	Part	Page
1	Elk Lake Silver Area			
	Discoveries	18	1	16
		18	2	1
	Map, coloured, with	18	1	
	Mining work (1908)	18	1	125-127
	(1909)	19	1	115,116
	(1910)	19	2	161-163
	(1911)	21	1	147,148
	(1912)	22	1	123,124
	(1913)	23	1	154,155
	(1914)	24	1	126,127
	(1915)	25	1	123
	Ores of	16	2	67
	Production (1910)	20	1	11
	Reports by Knight	16	2	117-127
		19	2	155-159
	Lucky Godfrey Silver Mine, James and Willet tps.			
	Capital and date of charter	18	1	43
	Financial difficulties	20	1	53

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

MOSHER, ALEX C.
(THE) PARAGON SILVER MINING CO. LTD.
PARAGON-HITCHCOCK MINES LTD.
PRITCHARD, E.C.
REDLILY LAKE
ROSE LAKE
ROWLANDSON
SCUGOG LAKE
SUNDAY LAKE
TICHBORNE, G.
WATSON, K.
WILKINSON, T.A.
WILLET SILVER MINE
WILLET SILVER MINES LTD.
WILLET TOWNSHIP
WINCHELL, L.F.
YOUNG LAKE
ZENMAC METAL MINING CO. LTD.

Index Volume	Listing	Report Volume	Part	Page
1	Lucky Godfrey Silver Mine, James and Willet tps. continued			
	Producing	19	1	21,91, 115
		20	1	11
		23	1	155
	Prospecting	18	1	126
	Work at (1909)	19	1	116
	(1911)	21	1	149
	Paragon Silver Mine, Willet tp.			
	Capital and date of charter	22	1	55
	Officers of	25	1	123
	Veins, promising	22	1	56
	Work at (1911)	21	1	50
	(1913)	23	1	155
	(1915)	25	1	123
	Willet Tp., Tim.			
	Included in Elk Lake are	18	1	123
	Silver mining	20	1	53,54
		21	1	149
		22	1	56
		23	1	155
		24	1	127
		25	1	123

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
1	Willet Silver Mines Ltd.			
	Capital and date of charter	19	1	49
2	Dominion Explorers Ltd.			
	Capital and date of charter	34	1	55
	Elk Lake Silver Area, Gowganda area			
	Barite in Nipissing diabase	29	3	64
	Operations (1916)	26		130,131
	Productions (1921)	31	1	8
	(1923)	33	1	8
	Paragon-Hitchcock Mines Ltd.			
	Capital and date of charter	27	1	71
	Hitchcock s.m. worked by	29	1	
		35	1	23,108
3	Dominion Explorers Ltd.			
	Incorporated	44	1	45
	Paragon-Hitchcock Mines Ltd.			
	Capital; officers; operations	36	1	173
4	No Listings Found			
5	Elk Lake Area, Tim.			
	Copper mg.	64	2	2
	Silver-cobalt prospect	63	2	68

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
5	Excelsior Mines Ltd.			
	Incorporated	62	1	58
6	Elk Lake Area, Tim.			
	Copper claims	67	2	7
	Silver mining	65	2	122
7	Accra Explorations Ltd.			
	Capital; officers; operations	73		117
	Elk Lake Area, Tim.			
	Silver mg. properties	71		119,124
		72		125,132
		73		123,124
	Ganda Silver Mines Ltd.			
	Capital; officers; operations (1963)	73		128
	Wilkinson, T.A.			
	of Ganda Silver Mines	73		128
	Winchell, L.F.			
	of Alsof Mines	72		125
8	Accra Expl. Ltd.			
	Willet and Barber Tps., Timiskaming Dist. report on Barnet Property	GR62		52

WILLET TOWNSHIP

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
8	Barnet Property			
	Willet and Barber Tps., Timiskaming Dist. mining property, report on	GR62		52
	Bastien-Pritchard Property			
	See Pritchard-Bastien Property			
	Elk Lake Area, Timiskaming Dist.			
	Geology of the area Report and maps 2150, 2151 and 2152 on, 1968 by B.E. MacKean	GR62		
	mining and expl. activity	MP46		35
		MP50		44
	silver/cobalt	GR62		22-55 passim
		MRC10		340-366
	Elk Lake-Gowganda Area, Timiskaming Dist.			
	mining and expl. activity	MP18		5
		MP25		4
		MP60		125
	silver	MP60		125
	Elk Lake-Gowganda-Matachewan Area, Timiskaming Dist.			
	mining and expl. activity	MP35		4
	Etwill Lake			
	Willet Tp., Timiskaming Dist.	GR62		13

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
8	Floyd Property			
	Willet Tp., Timiskaming Dist. mining property, report on	GR62		53
	Ganda Silver Mines Ltd.			
	Willet Tp., Timiskaming Dist. mining property, report on	GR62		53-54
	Godfrey, Richard			
	Willet Tp., Timiskaming Dist.	GR62		55
	Gomar Mines Ltd.			
	Willet Tp., Timiskaming Dist. mining property, report on	GR62		54
	Lucky Godfrey Cobalt Mines Co. Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		54
	Lucky Godfrey Silver Mine			
	Willet Tp., Timiskaming Dist. mining property, report on	MCR10		355
	Makobe River			
	Elk L. area, Timiskaming Dist.	GR62		15,20
	Paragon-Hitchcock Mines Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		53

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
8	Paragon Silver Mining Co. Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		53
	Pritchard-Bastien Property			
	Willet Tp., Timiskaming Dist. mining property, report on	GR62		54-55
	Rose Lake			
	Willet Tp., Timiskaming Dist.	GR62		8,55
	Scugog Lake			
	Willet Tp., Timiskaming Dist.	GR62		53-54
	Sunday Lake			
	Willet Tp., Timiskaming Dist.	GR62		10,54
	Tichbourne Claim			
	Willet Tp., Timiskaming Dist.	GR62		53
	Willet Cobalt Mining Co. Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		54
	Willet Silver Mines Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		54
	Willet Tp., Timiskaming Dist.			
	Geology of the Elk L. area	GR62		
	silver/cobalt	GR62 MRC10		52-55 355,358

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing	Report Volume	Part	Page
8	Zenmac Metal Mines Ltd.			
	Willet Tp., Timiskaming Dist.	GR62		55
9	Elk Lake Area, Timiskaming Dist.			
	Report (quaternary) and map 5020 on, 1980 by M.A. Roed	NOTS83		
	silver	MP84		74
	Elk Lake-Englehart Areas, Timiskaming Dist.			
	Summary of field work (gravity/magnetic), 1977 by V.G. Gupta and D.R. Wadge	MP75		172-173
	Elk Lake-Gowganda Area, Timiskaming Dist.			
	mining and exploration activity	MP64		78
	Willet Tp., Timiskaming Dist.			
	silver	MP70		354-355

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Author	Date	Title	Reference	Map Scales and or Report Pages
Andrews, A.J.	1986	Silver vein deposits: summary of recent research	CJES, vol. 23, no. 10	pp. 1459-1462
Andrews, A.J., Masliwec, A., Morris, W.A., Owsiacki, L. and York, D.	1986	The Silver Deposits at Cobalt and Gowganda, Ontario. II: An experiment in age determinations employing radiometric and paleomagnetic measurements	CJES, vol. 23, no. 10	pp. 1507-1518
Andrews, A.J., Owsiacki, L., Kerrich, R. and Strong, D.F.	1986	The Silver Deposits at Cobalt and Gowganda, Ontario. I: Geology, petrography and whole-rock geochemistry	CJES, vol. 23, no. 10	pp. 1480-1506
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	GSC Separate Report 1075 GSC Map 1076	 1:63 360
Collins, W.H.	1909	Montreal River District, Ontario	GSC Summary Report 1908	pp. 115-120
Collins, W.H.	1911	Montreal River District, Ontario	GSC Summary Report 1910	pp. 196-202
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	GSC Memoir 33 GSC Map 64A	 1: 63 360
Cooke, H.C.	1918	Montreal River District, Northern Ontario	GSC Summary Report 1917, Part E	pp. 16-18
Easton, R.M.	1986	Geochronology of Ontario, Part I: Compilation of Data	OFR 5592	179 p.

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Author	Date	Title	Reference	Map Scales and or Report Pages
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
Geological Survey of Canada	1956	Aeromagnetic Map, Elk Lake, Ontario	GSC Map 283G	1:63 260
Geological Survey of Canada	1988	Gravity-Bouguer Anomalies, Sudbury, Ontario and Quebec	GSC Map NL-17-GR(BA)	1:1 000 000
Goodz, M.D., Watkinson, D.H., Smejkal, V. and Pertold, Z.	1986	Sulphur-isotope geochemistry of silver-sulpharsenide vein mineralization, Cobalt, Ontario	CJES, vol. 23, no. 10	pp. 1551-1567
Gupta, V.K.	1981	Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Timiskaming and Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Gupta, V.K., Wadge, D.R.	1980	Bouguer Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Timiskaming + 2Al Districts, Ontario	OGS Map P.2296	1:100 000
Hornbrook, E.H.W. and Friske, P.W.B.	1988	Regional Lake Sediment and Water Geochemical Reconnaissance Data, Gogama Area, Ontario	OGS OFR 1640	
Hunter and Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/12 and 41P/E, Timiskaming + 2 other Districts	OGS OFR 5486	3 volumes

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Author	Date	Title	Reference	Map Scales and or Report Pages
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kerrich, R., Strong, D.F., Andrews, A.J. and Owsiacki, L.	1986	The Silver Deposits at Cobalt and Gowganda, Ontario. III: Hydrothermal regimes and source reservoirs-evidence from H,O,C, and SR isotopes and fluid inclusions	CJES, vol. 23, no. 10	pp. 1519-1550
Kretschmar, U., Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Timiskaming + 2AL Districts	OGS OFR 5310	
Kretschmar, U., Kretschmar, D.	1986	Talc, Magnestite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Timiskaming and Cochrane Districts	OGS Study 28	
Kutina, Jan and Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi Area of the Canadian Shield	GSP Paper 71-9	36 p.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt Area, NTS 31M/W and 41P, Ontario	OGS OFR 5508	
Long, D.G.F., Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern Margin of the Cobalt Embayment, Ontario, with Comments on Associated Concentrations of Silver and Copper	OGS OFR 5608	

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Mackean, B.E.	1967	Geology of the Elk Lake Area, District of Timiskaming, Ontario	ODM OFR 5006	
Mackean, B.E.	1967	Roadhouse and Willet Townships, Timiskaming District, Ontario	ODM Map 2152	1:31 680
Mackean, B.D.	1968	Geology of the Elk Lake Area, District of Timiskaming, Ontario	ODM GR 62	
Mansinha, L., Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ontario	OGS OFR 5440	
Ontario Geological Survey	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	GSC Summary Report 1904, Vol. XVI, Part A	pp. 198-225
Pyke, D.R., Ayres, L.D., Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts, Ontario	ODM Map 2205	1:253 440
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Roed, M.A., Hallet, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Timiskaming District, Ontario	OGS Map 5020	1:100 000
Savage, W.S., Thomson, R., Fenwick, K.G.	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ontario	ODM Map P-159	1:126 720
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and part of Ville Marie Sheet, NTS 41P, 31M/W, Timiskaming and Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
Symons, D.T.A., Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	
Thorpe, R.I., Goodz, M.D., Jonasson, I.R. and Blenkinsop, J.	1986	Lead-isotope study of mineralization in the Cobalt District, Ontario	CJES, vol. 23, no.10	pp. 1568-1575

Note No.	NOTES
	The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hote data. On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown. The Lucky Godfrey Mine production from 1908 and 1910 totalled 9,835 oz. Ag and 592 lb. Co. The township was closed to staking in 1978 due to the Bear Island Indian Caution.

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

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Box 230, Presley St.,
Cobalt, Ontario
P0J-1C0
(705)679-8558

WILLET TOWNSHIP

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: **See pages 3-1,2... of text**

- ■ Mineral occurrence at surface, with reference letter
- ■ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: **See pages 5-1,2... of text**

- ■ Location of single drillhole, with reference number
- ■ Location of group of closely spaced drillholes, with reference number
- ■ Drillhole, exact location uncertain, with reference number
- ■ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole, churn drilling, with reference number
- ☐

GEOCHEMICAL: **See pages 7-1,2....of text**

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2... of text

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly. Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Conductor axis: definite, probable, possible
- ☐ AEM — Airborne electromagnetic anomaly. Conductor axis. Location of flight lines uncertain
- ☐ ARA — Airborne radiometric anomaly

Ground Surveys

- ☐ M — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly (VL: Vertical loop, HL: Horizontal loop, VLF: Very low freq., Turam, JEM, Crone Em. 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: **See page 8 of text**

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ■ Trenching, pit
- ■ Adit
- ☐ Sand and or gravel pit
- ☐ Rock quarry
- ☐ Open pit
- ☐
- ☐

MAPS
NOT
FILMED

CARTES
OMISES